CALL FOR APPLICATIONS

Job:

Job reference:	AE2019-0293 (EUniversal - CPES)
	INESC TEC - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência
Position:	Research Grants (BI)
City:	Porto
Research field:	Main: ENGINEERING
	Sub: Computer engineering,Electrical engineering

Job summary:

INESC TEC is accepting applications to award 1 Research Grant for MSC .

Project:	MARKET ENABLING INTERFACE TO UNLOCK FLEXIBILITY SOLUTIONS FOR COST-EFFECTIVE MANAGEMENT OF SMARTER DISTRIBUTION GRIDS
Scientific Advisor:	Leonel Magalhães Carvalho
Duration Grant:	from 2020-02-01 to 2021-01-31 (12) eventually renewable until the project conclusion or budget.
Location:	INESC TEC, Porto, Portugal

Job description:

Work Area: Smart Grids

Project overview: The goal of EUniversal is to implement the Universal Market Enabling Interface concept by bringing forward a adaptable and modular approach to interlink active system management with electricity markets and foster the provision of flexibility services. The researcher will work in the design of resilience enhancement solutions for distribution networks, which includes self-healing schemes and dynamic islanding algorithms to improve network reliability.

Objectives: Development of new algorithms for reliability/resilience assessment in electrical grids (e.g., based on sequential Monte Carlo simulation) with innovative operating strategies; Implementation of algorithms in software for real-life demonstration Publication of results in conferences/scientific journals.

Academic Qualifications:	Master in Electrical and Computer Engineering or similar
Minimum Profile required:	Experience in electrical power systems and reliability assessment;Programming skills in GPU, C ++ and Phyton; Fluency in English (spoken and written).
Preference factors:	Experience in power system optimization, load flow tools and Monte Carlo Simulation; Fluency in Portuguese (spoken and written).
Monthly Grant:	€989,70 (MSC) according to the Stipends values of the grants awarded directly by the FCT, paid by bank transfer. The grant holder may also benefit from additional incomes in the sequence of a quarterly evaluation process (Clauses 12 and 13 of INESC TEC Grants Regulation and Annex II), up to a maximum of 50% of the monthly grant.

Project duration:	2020-02-01 a 2023-06-30
Funding Entity:	CE

The grant contract shall be submitted to the legislation concerning the Research Grant Holder Statute , approved by Law n 40/2004, dated 18 August, amended and republished by Decree-Law No. 202/2012 of 27 August and amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of July 9 as well as by INESC TEC Grant Regulation , approved by FCT - Fundação para a Ciência e a Tecnologia (Science and Technology Foundation) in 12 January 2011 and FCT current Grant Regulation. Additional information about INESC TEC Grants Regulation and relating annexes may be found at www.inesctec.pt/grants

Selection Criteria: Curriculum evaluation based on the criteria referred to in Clause 7 INESC TEC Grants Regulation and will include individual interviews in the final stage of the selection process, with its valuation: 90% curriculum evaluation (40% CV, 30% scientific domains and 20% Expertise) and 10% interview.

Selection Jury:	President of the Jury: Prof. Leonel Magalhães Carvalho; Member: Prof. Manuel Matos; Member: Prof. Clara Sofia Gouveia;
Notification of results:	The results of the selection process will be disseminated to interested parties by mail, as referred to in Clause 8 of INESC TEC Grants Regulation.
Application period:	From 2019-11-20 to 2019-12-20
Application submission:	Fill in the electronic form in the section Work with Us at www.inesctec.pt, , attaching the Curriculum Vitae, certificate of qualifications and other supporting documents relevant to the final assessment.